

Claims

1. Crystal of (-)-N- {2-[(R)-3-(6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline-2-carbonyl)piperidino]ethyl}-4-fluorobenzamide monophosphate which is characterized in having main peaks near 19.36, 6.23, 4.73 and 3.81 Å of lattice spacing in a X-ray powder diffraction pattern obtained by the use of Cu-K α radiation.
2. The crystal according to claim 1, wherein lattice spacing and relative intensity in a X-ray powder diffraction pattern obtained by the use of Cu-K α radiation are as shown in Table 4.

(Table 4)

Lattice Spacing (Å)	Relative Intensity
19.36	strong
15.28	slightly strong
6.23	strong
5.71	slightly strong
4.73	strong
4.50	slightly strong
3.81	strong

3. Crystal of (-)-N- {2-[(R)-3-(6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline-2-carbonyl)piperidino]ethyl}-4-fluorobenzamide monophosphate which is characterized that, in a DSC curve, the temperature of endothermic peak is near 206 to 207°C.

4. Crystal of (-)-N- {2-[(R)-3-(6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline-2-carbonyl)piperidino]ethyl}-4-fluorobenzamide monophosphate which is

characterized in having main peaks near 18.40, 6.52, 5.22, 4.38 and 4.09 Å of lattice spacing in a X-ray powder diffraction pattern obtained by the use of Cu-K α radiation.

5. The crystal according to claim 4, wherein lattice spacing and relative intensity in a X-ray powder diffraction pattern obtained by the use of Cu-K α radiation are as shown in Table 5.

(Table 5)

Lattice Spacing (Å)	Relative Intensity
18.40	strong
6.52	strong
5.22	strong
5.06	slightly strong
4.86	slightly strong
4.38	strong
4.09	strong
3.74	slightly strong

6. Crystal of (-)-N- {2-[(R)-3-(6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline-2-carbonyl)piperidino]ethyl}-4-fluorobenzamide monophosphate which is characterized that, in a DSC curve, the temperature of endothermic peak is near 176 to 177°C.